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FEB 17 1941

PERFORMANCE TABLES

TYPE ME

CENTRIFUGAL FANS

SLOW SPEED WHEELS

●
Compiled for
ARCHITECTS
ENGINEERS
CONTRACTORS



AIA File No. 30-D-1

The
**NEW YORK
BLOWER
COMPANY**

GENERAL OFFICES
32nd STREET & SHIELDS AVENUE • CHICAGO
FACTORIES at LAPORTE, IND. and CHICAGO, ILL.

Type ME Fan

Correctly designed
Carefully constructed
its ratings determined in strict
accordance with standard codes
. . . its performance checked in
the laboratories of two universi-
ties—Type ME Fan has earned a
well deserved reputation as THE
Fan of Certified Performance.



1925 is an EPOCH in the Fan Art . . . the introduction of
the Type ME Fan with its Certified Ratings and its Total Efficiency
of 75%!

The TYPE ME FAN of TODAY maintains its leadership!!



Since 1889.

CAPACITY TABLES — 1940 EDITION

Type ME Fans

SLOW SPEED WHEELS

Performance Tables are presented herewith covering The New York Blower Company's Type ME Fans with Slow Speed Forward Curved Multibladed Fan Wheels.

The Series of Sizes are in conformity with the final program of industry standardization for the benefit of Architects, Engineers and Users of Centrifugal Fans, as adopted by the National Association of Fan Manufacturers (of which Organization The New York Blower Company is a Charter Member) at its Annual Meeting held in Chicago on April 11, 1940, to be effective at once and fully operative by all manufacturers not later than 1941.

The program of standardization which has been adopted by all Nationally Recognized Fan Manufacturers has been completed and adopted after a two-year survey by technical and engineering representatives of all member companies. It has been agreed upon, accepted and endorsed by all of these companies. The series of maximum wheel diameters of comparable makes has been based upon the preferred number system advocated by the American Standards Association.

Present technical refinements are in keeping with The New York Blower Company's consistent and continuous policy with respect to dependable performance ratings.

After a quarter-century's experience in the Industry, in 1925 The New York Blower Company, in leadership marketed the first manufacturers' commercial line of Fans and Blowers of impressively and outstanding higher mechanical efficiencies. These were supported by published results of unprejudiced and impartial performance tests by authoritative and disinterested nationally recognized engineers.

Epochal in the Fan Art, Certified Ratings for its Fans were given upon the basis of tests conducted in the Engineering Laboratories of two Prominent Engineering Colleges — The Armour Institute of Technology and The University of Kentucky. In its leadership of design, The New York Blower Company was first to attain a PROVEN total efficiency of 75%.

The New York Blower Company's latest series of Sizes of Type ME Fans with Slow Speed Wheels are offered as a result of recent months of study and research devoted to the refinement and improvement of the celebrated Type ME Fan which has an enviable record of wide use and is performing valuable and satisfactory duty wherever used. We believe that The New York Blower Company's sizes as tabulated, will cover requirements in even a better way than has been enjoyed heretofore.

These new Tables of performance have been prepared upon the basis of tests in strict conformity with the Standard Test Code for Centrifugal and Propeller Fans as adopted jointly by the National Association of Fan Manufacturers and the American Society of Heating and Ventilating Engineers.

The Tables, as arranged, give the Fan Performance as to Volume, Brake Horsepower, and RPM and under various conditions of Static Pressures up to 3 inches W. G. and at various outlet velocities. The Tables treat with Single Width Single Inlet Fans and each individual Table has been carefully checked and verified by Prof. Lynn E. Davies, former Professor of Mechanical Engineering at the Armour Institute of Technology, and are based upon actual Testing Laboratory tests.

**CERTIFIED
RATINGS**

All deliveries are in accordance with Standard Test Code for Centrifugal and Propeller Fans adopted jointly by the National Association of Fan Manufacturers and American Society of Heating & Ventilating Engineers.

**MEMBER OF
NAFM**

The data given in the Tables shows performance under various conditions of operating which will be practical from viewpoint of satisfactory mechanical efficiencies. The points of maximum efficiency are indicated by underscore markings in the Tables.

Data as respecting Performance outside the range as tabulated and covered by this publication will be furnished upon inquiry to the Home Office.

**The
NEW YORK BLOWER COMPANY**

**The
NEW YORK BLOWER COMPANY**
FACTORIES AT LA PORTE, IND. and CHICAGO, ILL.

JD 89-68765-12F

TYPE ME FAN

ENGINEERING NOTES

SLOW SPEED WHEELS			GOOD OPERATING VELOCITIES AND TIP SPEEDS FOR FORWARD CURVED MULTIBLADE VENTILATING FANS	
STATIC PRESSURE INCHES OF WATER	OUTLET VELOCITY FEET PER MINUTE	TIP SPEED FEET PER MINUTE		
1/4	1000-1100	1520-1700		
3/8	1000-1100	1760-1900		
1/2	1000-1200	1970-2150		
5/8	1100-1300	2225-2450		
3/4	1200-1400	2480-2700		
7/8	1300-1600	2660-2910		
1	1500-1800	2820-3120		
1 1/4	1600-1900	3162-3450		
1 1/2	1800-2100	3480-3810		
1 3/4	1900-2200	3760-4205		
2	2000-2400	4000-4500		
2 1/4	2200-2600	4250-4740		
2 1/2	2300-2600	4475-4970		
3	2500-2800	4900-5365		



DOUBLE WIDTH DOUBLE INLET FANS

Referring to the Performance Tables for Single Width Single Inlet Fans, DOUBLE WIDTH DOUBLE INLET FANS WILL DELIVER DOUBLE THE CFM VOLUME GIVEN FOR SINGLE WIDTH SINGLE INLET FANS and the following data will apply:

- 1.—Multiply GIVEN RPM by Factor 1.01
- 2.—Multiply GIVEN O.V. by Factor 1.11
- 3.—Multiply GIVEN BHP by Factor 2.04



SINGLE INLET

WHEEL DIA. 14 INCHES
WHEEL CIRC. 4.407 FT.

NO. 15 Type ME Fan

SLOW SPEED WHEEL

SINGLE WIDTH

OUTLET AREA 1.274 SQ. FT.

CFM VOLUME	1/4" S P		3/8" S P		1/2" S P		5/8" S P		3/4" S P		7/8" S P		1" S P		1-1/4" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1 270	883	.11	1455	.14	219	.18	279	.23	611	.28	690	.35	736	.44	820	.63	907	.82	970	1.03	1035	1.21	1095	1.38	1165	1.55	1227	1.73
1 400	960	.12	1582	.15	243	.21	304	.25	674	.30	759	.38	794	.47	882	.70	968	.89	1035	1.07	1103	1.25	1165	1.42	1230	1.60	1297	1.79
1 530	1038	.13	1712	.16	260	.22	321	.26	737	.33	836	.41	871	.51	968	.75	1054	.93	1120	1.12	1190	1.31	1257	1.49	1327	1.67	1397	1.85
1 660	1116	.14	1842	.17	276	.23	337	.28	800	.36	909	.44	944	.55	1040	.80	1126	.98	1195	1.18	1267	1.37	1337	1.55	1409	1.73	1481	1.91
1 780	1194	.15	1972	.18	292	.24	353	.29	863	.39	981	.47	1016	.58	1112	.84	1200	1.02	1270	1.22	1343	1.41	1415	1.60	1489	1.78	1563	1.96
1 910	1272	.16	2102	.19	308	.25	369	.30	926	.42	1049	.50	1084	.61	1180	.88	1270	1.06	1342	1.26	1417	1.45	1491	1.64	1567	1.82	1643	2.00
2 040	1350	.17	2232	.20	324	.26	385	.31	989	.45	1112	.53	1147	.64	1244	.91	1336	1.09	1412	1.30	1489	1.49	1567	1.68	1645	1.86	1723	2.04
2 170	1428	.18	2362	.21	340	.27	401	.32	1052	.48	1175	.56	1210	.67	1308	.94	1402	1.12	1480	1.32	1559	1.51	1639	1.70	1719	1.88	1799	2.06
2 290	1506	.19	2492	.22	356	.28	417	.33	1115	.51	1238	.59	1273	.70	1372	1.01	1468	1.14	1548	1.34	1629	1.53	1711	1.72	1793	1.90	1875	2.08
2 420	1584	.20	2622	.23	372	.29	433	.34	1178	.54	1301	.62	1336	.73	1436	1.04	1534	1.17	1616	1.36	1699	1.55	1783	1.74	1867	1.92	1951	2.10
2 550	1662	.21	2752	.24	388	.30	449	.35	1241	.57	1364	.65	1400	.76	1500	1.06	1600	1.19	1684	1.38	1769	1.57	1855	1.76	1941	1.94	2027	2.12
2 680	1740	.22	2882	.25	404	.31	465	.36	1304	.60	1427	.68	1463	.79	1564	1.08	1666	1.21	1752	1.40	1839	1.59	1927	1.78	2015	1.96	2103	2.14
2 800	1818	.23	3012	.26	420	.32	481	.37	1367	.63	1490	.71	1526	.82	1628	1.10	1732	1.23	1820	1.42	1909	1.61	1999	1.80	2089	1.98	2179	2.16
2 930	1896	.24	3142	.27	436	.33	497	.38	1430	.66	1553	.74	1589	.85	1692	1.12	1800	1.25	1890	1.44	1981	1.63	2073	1.82	2165	1.99	2257	2.18
3 060	1974	.25	3272	.28	452	.34	513	.39	1493	.69	1616	.77	1652	.88	1756	1.14	1868	1.27	1960	1.46	2053	1.65	2147	1.84	2241	2.02	2335	2.20
3 180	2052	.26	3402	.29	468	.35	529	.40	1556	.72	1679	.80	1715	.91	1820	1.16	1934	1.29	2028	1.48	2123	1.67	2219	1.86	2315	2.04	2411	2.22
3 310	2130	.27	3532	.30	484	.36	545	.41	1619	.75	1742	.83	1778	.94	1884	1.18	1998	1.31	2104	1.50	2201	1.69	2300	1.88	2397	2.06	2495	2.24
3 430	2208	.28	3662	.31	500	.37	561	.42	1682	.78	1805	.86	1841	.97	1948	1.20	2064	1.33	2162	1.52	2261	1.71	2362	1.90	2463	2.08	2565	2.26
3 560	2286	.29	3792	.32	516	.38	577	.43	1745	.81	1868	.89	1904	.10	2012	1.22	2130	1.35	2230	1.54	2331	1.73	2434	1.92	2537	2.10	2641	2.28
3 680	2364	.30	3922	.33	532	.39	593	.44	1808	.84	1931	.92	1967	.11	2076	1.24	2196	1.37	2298	1.56	2401	1.75	2506	1.94	2611	2.12	2717	2.30
3 810	2442	.31	4052	.34	548	.40	609	.45	1871	.87	1994	.95	2030	.12	2140	1.26	2262	1.39	2366	1.58	2471	1.77	2578	1.96	2685	2.14	2793	2.32
3 940	2520	.32	4182	.35	564	.41	625	.46	1934	.90	2057	.98	2093	.13	2202	1.28	2326	1.41	2432	1.60	2539	1.79	2647	1.98	2756	2.16	2865	2.34
4 070	2598	.33	4312	.36	580	.42	641	.47	1997	.93	2120	1.01	2156	.14	2266	1.30	2392	1.43	2500	1.62	2609	1.81	2719	2.00	2829	2.18	2940	2.36
4 200	2676	.34	4442	.37	596	.43	657	.48	2060	.96	2183	1.04	2219	.15	2330	1.32	2458	1.45	2569	1.64	2680	1.83	2792	2.02	2904	2.20	3017	2.38
4 330	2754	.35	4572	.38	612	.44	673	.49	2123	.99	2246	1.07	2282	.16	2394	1.34	2522	1.47	2635	1.66	2748	1.85	2862	2.04	2977	2.22	3093	2.40
4 460	2832	.36	4702	.39	628	.45	689	.50	2186	1.02	2309	1.10	2345	.17	2458	1.36	2588	1.49	2701	1.68	2816	1.87	2933	2.06	3050	2.24	3168	2.42
4 590	2910	.37	4832	.40	644	.46	705	.51	2249	1.05	2372	1.13	2408	.18	2522	1.38	2652	1.51	2767	1.70	2884	1.90	3003	2.08	3122	2.26	3242	2.44
4 720	2988	.38	4962	.41	660	.47	721	.52	2312	1.08	2435	1.16	2471	.19	2586	1.40	2716	1.53	2835	1.72	2955	1.92	3075	2.10	3197	2.28	3320	2.46
4 850	3066	.39	5092	.42	676	.48	737	.53	2375	1.11	2498	1.19	2534	.20	2649	1.42	2779	1.55	2900	1.74	3021	1.94	3144	2.12	3269	2.30	3392	2.48
4 980	3144	.40	5222	.43	692	.49	753	.54	2438	1.14	2561	1.22	2591	.21	2712	1.44	2842	1.57	2969	1.76	3104	1.96	3228	2.14	3353	2.32	3466	2.50
5 110	3222	.41	5352	.44	708	.50	769	.55	2501	1.17	2624	1.25	2652	.22	2775	1.46	2905	1.59	3038	1.78	3178	1.98	3298	2.16	3421	2.34	3535	2.52
5 240	3300	.42	5482	.45	724	.51	785	.56	2564	1.20	2687	1.28	2715	.23	2838	1.48	2968	1.61	3101	1.80	3262	2.00	3364	2.18	3489	2.36	3605	2.54
5 370	3378	.43	5612	.46	740	.52	801	.57	2627	1.23	2750	1.31	2778	.24	2901	1.50	3032	1.63	3164	1.82	3328	2.02	3430	2.20	3553	2.38	3679	2.56
5 500	3456	.44	5742	.47	756	.53	817	.58	2690	1.26	2813	1.34	2836	.25	2964	1.52	3095	1.65	3227	1.84	3394	2.04	3500	2.22	3619	2.40	3751	2.58
5 630	3534	.45	5872	.48	772	.54	833	.59	2753	1.29	2876	1.37	2899	.26	3027	1.54	3158	1.67	3286	1.86	3460	2.06	3564	2.24	3685	2.42	3831	2.60
5 760	3612	.46	6002	.49	788	.55	849	.60	2816	1.32	2939	1.40	2962	.27	3090	1.56	3221	1.69	3349	1.88	3526	2.08	3630	2.26	3751	2.44	3913	2.62
5 890	3690	.47	6132	.50	804	.56	865	.61	2879	1.35	2992	1.43	3025	.28	3153	1.58	3284	1.71	3412	1.90	3592	2.10	3696	2.28	3817	2.46	4000	2.64
6 020	3768	.48	6262	.51	820	.57	881	.62	2942	1.38	3055	1.46	3088	.29	3216	1.60	3347	1.73	3475	1.92	3658	2.12	3762	2.30	3883	2.48	4088	2.66
6 150	3846	.49	6392	.52	836	.58	897	.63	3005	1.41	3118	1.49	3151	.30	3279	1.62	3410	1.75	3540	1.94	3725	2.14	3829	2.32	3951	2.50	4176	2.68
6 280	3924	.50	6522	.53	852	.59	913	.64	3068	1.44	3181	1.52	3214	.31	3342	1.64	3473	1.77	3603	1.96	3790	2.16	3896	2.34	4017	2.52	4264	2.70
6 410	4002	.51	6652	.54	868	.60	929	.65	3131	1.47	3244	1.55	3278	.32	3405	1.66	3536	1.79	3666	1.98	3859	2.18	3964	2.36	4083	2.54	4352	2.72
6 540	4080	.52	6782	.55	884	.61	945	.66	3194	1.50	3307	1.58	3341	.33	3468	1.68	3599	1.81	3729	2.00	3924	2.20	4034	2.38	4150	2.56	4440	2.74
6 670	4158	.53	6912	.56	900	.62	961	.67	3257	1.53	3368	1.61	3404	.34	3531	1.70	3662	1.83	3792	2.02	4000	2.22	4100	2.40	4228	2.58	4528	2.76
6 800	4236	.54	7042	.57	916	.63	977	.68	3320	1.56	3429	1.64	3467	.35	3594	1.72	3725	1.85	3855	2.04	4076	2.24	4176	2.42	4304	2.60	4616	2.78
6 930	4314	.55	7172	.58	932	.64	993	.69	3383	1.59	3482	1.67	3530	.36	3657	1.74	3788	1.87	3918	2.06	4152	2.26	4252	2.44	4380	2.62	4704	2.80
7 060	4392	.56	7302	.59	948	.65	1009	.70	3446	1.62	3537																	

SINGLE INLET

Type ME Fan

NO. 21

SLOW SPEED WHEEL

SINGLE WIDTH

OUTLET AREA 2.447 SQ. FT.

WHEEL DIA. 24 INCHES
WHEEL CIRC. 6.496 FT.

CFM VOLUME	1/4" S P		3/8" S P		1/2" S P		5/8" S P		3/4" S P		7/8" S P		1" S P		1-1/4" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2 500	269	.20	312	.26	364	.33	406	.41	449	.51	484	.65	516	.81	575	1.15	631	1.49	680	1.87	728	2.36	772	2.71	816	3.15	894	4.19
3 000	276	.24	324	.30	377	.37	418	.46	461	.56	502	.81	536	1.01	591	1.34	638	1.68	678	1.92	725	2.52	770	2.82	816	3.15	894	4.19
3 500	286	.27	331	.35	384	.43	426	.50	469	.60	510	.86	544	1.06	600	1.39	646	1.73	687	2.06	735	2.66	780	2.97	826	3.35	904	4.39
4 000	296	.32	348	.40	393	.49	434	.57	477	.68	516	.91	554	1.15	604	1.49	646	1.83	680	2.16	725	2.70	770	2.98	816	3.37	894	4.39
4 500	306	.37	360	.45	405	.54	446	.63	489	.75	526	1.00	564	1.25	614	1.59	656	1.93	690	2.26	735	2.72	780	3.00	826	3.37	904	4.39
5 000	316	.42	372	.50	417	.59	458	.68	501	.80	538	1.05	576	1.30	626	1.63	668	1.97	702	2.30	747	2.74	792	3.00	838	3.37	916	4.39
5 500	326	.47	384	.55	429	.64	470	.73	513	.86	550	1.10	588	1.35	638	1.67	680	1.99	714	2.34	759	2.78	804	3.00	846	3.37	928	4.39
6 000	336	.52	396	.60	441	.69	482	.78	525	.91	562	1.15	600	1.40	650	1.73	692	2.05	726	2.38	771	2.82	816	3.15	858	3.37	940	4.39
6 500	346	.57	408	.65	453	.74	494	.83	537	.96	574	1.20	612	1.45	662	1.77	704	2.09	738	2.42	783	2.86	828	3.15	870	3.37	952	4.39
7 000	356	.62	420	.70	465	.79	506	.88	549	1.01	586	1.25	624	1.50	674	1.83	716	2.13	750	2.46	795	2.90	840	3.15	882	3.37	964	4.39
7 500	366	.67	432	.75	477	.84	518	.93	561	1.06	598	1.30	636	1.55	686	1.87	728	2.17	762	2.50	807	2.94	852	3.15	894	3.37	976	4.39
8 000	376	.72	444	.80	489	.89	530	.98	573	1.11	610	1.35	648	1.60	698	1.91	740	2.21	774	2.54	819	2.98	864	3.15	906	3.37	998	4.39
8 500	386	.77	456	.85	501	.94	542	1.03	585	1.16	622	1.40	660	1.65	710	1.95	752	2.25	786	2.58	831	3.02	876	3.15	918	3.37	1000	4.39
9 000	396	.82	468	.90	513	.99	554	1.08	597	1.21	634	1.45	672	1.70	722	2.00	764	2.29	808	2.62	853	3.02	898	3.15	940	3.37	1022	4.39
9 500	406	.87	480	.95	525	1.04	566	1.13	609	1.26	646	1.50	684	1.75	734	2.05	776	2.33	820	2.66	865	3.02	900	3.15	962	3.37	1044	4.39
10 000	416	.92	492	1.00	537	1.09	578	1.18	621	1.31	658	1.55	696	1.80	746	2.10	788	2.37	832	2.70	877	3.02	912	3.15	984	3.37	1066	4.39
10 500	426	.97	504	1.05	549	1.14	590	1.23	633	1.36	670	1.60	708	1.85	758	2.15	800	2.41	842	2.74	887	3.02	924	3.15	1006	3.37	1088	4.39
11 000	436	1.02	516	1.10	561	1.19	602	1.28	645	1.41	682	1.65	720	1.90	768	2.17	812	2.45	854	2.78	899	3.02	936	3.15	1018	3.37	1100	4.39
11 500	446	1.07	528	1.15	573	1.24	614	1.33	657	1.46	694	1.70	732	1.95	780	2.19	824	2.49	866	2.82	911	3.02	948	3.15	1030	3.37	1122	4.39
12 000	456	1.12	540	1.20	585	1.29	626	1.38	669	1.51	706	1.75	744	2.00	792	2.21	836	2.53	878	2.86	923	3.02	960	3.15	1042	3.37	1144	4.39
12 500	466	1.17	552	1.25	597	1.34	638	1.43	681	1.56	718	1.80	756	2.05	804	2.25	848	2.57	890	2.90	935	3.02	972	3.15	1054	3.37	1166	4.39
13 000	476	1.22	564	1.30	609	1.39	650	1.48	693	1.61	730	1.85	768	2.10	816	2.29	860	2.59	902	2.94	947	3.02	984	3.15	1066	3.37	1188	4.39
13 500	486	1.27	576	1.35	621	1.44	662	1.53	705	1.66	742	1.90	780	2.15	828	2.35	870	2.69	912	2.98	957	3.02	1006	3.15	1078	3.37	1200	4.39
14 000	496	1.32	588	1.40	633	1.49	674	1.58	717	1.71	754	1.95	792	2.20	840	2.39	882	2.73	924	3.02	969	3.02	1018	3.15	1090	3.37	1222	4.39
14 500	506	1.37	600	1.45	645	1.54	686	1.63	729	1.76	766	2.00	804	2.25	852	2.43	894	2.77	936	3.02	981	3.02	1030	3.15	1102	3.37	1244	4.39
15 000	516	1.42	612	1.50	657	1.59	698	1.68	741	1.81	778	2.05	816	2.30	864	2.47	906	2.81	948	3.02	993	3.02	1042	3.15	1114	3.37	1266	4.39
15 500	526	1.47	624	1.55	669	1.64	710	1.73	753	1.86	790	2.10	828	2.35	876	2.51	918	2.85	960	3.02	1007	3.02	1054	3.15	1126	3.37	1288	4.39
16 000	536	1.52	636	1.60	681	1.69	722	1.78	765	1.91	802	2.15	840	2.40	888	2.55	930	2.89	972	3.02	1019	3.02	1066	3.15	1138	3.37	1300	4.39
16 500	546	1.57	648	1.65	693	1.74	734	1.83	777	1.94	814	2.20	852	2.45	900	2.59	942	2.93	984	3.02	1031	3.02	1078	3.15	1150	3.37	1322	4.39
17 000	556	1.62	660	1.70	705	1.79	746	1.88	789	2.00	826	2.25	864	2.50	912	2.63	954	2.97	996	3.02	1043	3.02	1090	3.15	1162	3.37	1344	4.39
17 500	566	1.67	672	1.75	717	1.84	758	1.93	801	2.05	837	2.30	876	2.55	924	2.67	966	2.99	1008	3.02	1055	3.02	1102	3.15	1174	3.37	1366	4.39
18 000	576	1.72	684	1.80	729	1.89	770	1.98	813	2.10	849	2.35	888	2.60	936	2.71	978	3.01	1020	3.02	1067	3.02	1114	3.15	1186	3.37	1388	4.39
18 500	586	1.77	696	1.85	741	1.94	782	2.03	825	2.15	861	2.40	900	2.65	948	2.75	990	3.05	1032	3.02	1079	3.02	1126	3.15	1198	3.37	1400	4.39
19 000	596	1.82	708	1.90	753	2.00	794	2.08	837	2.20	873	2.45	912	2.70	960	2.79	1002	3.09	1044	3.02	1091	3.02	1138	3.15	1210	3.37	1422	4.39
19 500	606	1.87	720	1.95	765	2.05	806	2.13	849	2.25	885	2.50	924	2.75	972	2.85	1014	3.13	1056	3.02	1103	3.02	1150	3.15	1222	3.37	1444	4.39
20 000	616	1.92	732	2.00	777	2.10	818	2.18	861	2.30	897	2.55	936	2.80	984	2.91	1026	3.17	1068	3.02	1115	3.02	1162	3.15	1234	3.37	1466	4.39
20 500	626	1.97	744	2.05	789	2.15	830	2.23	873	2.35	909	2.60	948	2.85	996	2.95	1038	3.21	1080	3.02	1127	3.02	1174	3.15	1246	3.37	1488	4.39
21 000	636	2.02	756	2.10	801	2.20	842	2.28	885	2.40	921	2.65	960	2.90	1008	3.01	1050	3.25	1092	3.02	1139	3.02	1186	3.15	1258	3.37	1500	4.39
21 500	646	2.07	768	2.15	813	2.25	854	2.33	897	2.45	933	2.70	972	2.95	1020	3.06	1062	3.29	1104	3.02	1151	3.02	1198	3.15	1270	3.37	1522	4.39
22 000	656	2.12	780	2.20	825	2.30	866	2.38	909	2.50	945	2.75	984	3.00	1032	3.11	1074	3.33	1116	3.02	1163	3.02	1210	3.15	1282	3.37	1544	4.39
22 500	666	2.17	792	2.25	837	2.35	878	2.43	921	2.55	957	2.80	996	3.05	1044	3.16	1086	3.37	1128	3.02	1175	3.02	1222	3.15	1294	3.37	1566	4.39
23 000	676	2.22	804	2.30	849	2.40	890	2.48	933	2.60	969	2.85	1008	3.10	1056	3.21	1098	3.41	1140	3.02	1187	3.02	1234	3.15	1306	3.37	1588	4.39
23 500	686	2.27	816	2.35	861	2.45	902	2.53	945	2.65	981	2.90	1020	3.15	1068	3.26	1110	3.45	1152	3.02	1199	3.02	1246	3.15	1318	3.37	1600	4.39
24 000	696	2.32	828	2.40	873	2.50	914	2.58	957	2.70	993	2.95	1032	3.20	1080	3.31	1122	3.49	1164	3.02	1211	3.02	1258	3.15	1330	3.37	1620	4.39
24 500	706	2.37	840	2.45	885	2.55	926	2.63	969	2.75	1005	3.00	1044	3.25	1092	3.36	1134	3.53	1176	3.02	1223	3.02	1270	3.15	1342	3.37	1642	4.39
25 000	716	2																										

P.L. 1-3606-25-111

AIA File No. 30-D-1

SINGLE WIDTH
OUTLET AREA 4.126 SQ. FT.

Type ME Fan
SLOW SPEED WHEEL

NO. 27

SINGLE INLET

WHEEL DIA. 27 INCHES
WHEEL CIRC. 7.009 FT.

CPM VOLUME	VELOCITY PRESSURE	1/4" S P		3/8" S P		1/2" S P		5/8" S P		3/4" S P		7/8" S P		1" S P		1-1/4" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4 130	1000	207	.57	246	.64	280	.72	312	.85	346	.94	372	1.01	397	1.09	422	1.17	448	1.25	474	1.33	500	1.41	526	1.49	552	1.57	578	1.65
4 150	1100	212	.57	250	.64	285	.72	317	.85	351	.94	378	1.01	403	1.09	428	1.17	453	1.25	479	1.33	504	1.41	530	1.49	556	1.57	582	1.65
4 170	1200	220	.55	255	.63	288	.70	320	.82	354	.90	381	1.00	406	1.08	431	1.16	456	1.24	482	1.32	507	1.40	533	1.48	559	1.56	585	1.64
4 190	1300	228	.50	266	.58	293	.66	321	.74	355	.82	382	1.00	407	1.08	432	1.16	457	1.24	483	1.32	508	1.40	534	1.48	560	1.56	586	1.64
4 210	1400	235	.47	272	.55	300	.63	328	.71	362	.79	389	1.00	414	1.08	439	1.16	464	1.24	490	1.32	515	1.40	541	1.48	567	1.56	593	1.64
4 230	1500	243	.45	277	.53	306	.61	334	.69	368	.77	395	1.00	420	1.08	445	1.16	470	1.24	496	1.32	521	1.40	547	1.48	573	1.56	599	1.64
4 250	1600	252	.46	282	.54	312	.62	340	.70	374	.78	401	1.00	426	1.08	451	1.16	476	1.24	502	1.32	527	1.40	553	1.48	579	1.56	605	1.64
4 270	1700	257	.48	287	.56	317	.64	345	.72	379	.80	406	1.00	431	1.08	456	1.16	481	1.24	507	1.32	532	1.40	558	1.48	584	1.56	610	1.64
4 290	1800	269	1.00	299	1.08	329	1.16	361	1.24	395	1.32	422	1.40	448	1.48	474	1.56	500	1.64	526	1.72	552	1.80	578	1.88	604	1.96	630	2.04
4 310	1900	278	1.14	308	1.22	338	1.30	370	1.38	404	1.46	431	1.54	457	1.62	483	1.70	509	1.78	535	1.86	561	1.94	587	2.02	613	2.10	639	2.18
4 330	2000	287	1.29	317	1.37	347	1.45	379	1.53	413	1.61	440	1.69	466	1.77	492	1.85	518	1.93	544	2.01	570	2.09	596	2.17	622	2.25	648	2.33
4 350	2100	297	1.45	327	1.53	357	1.61	389	1.69	423	1.77	450	1.85	476	1.93	502	2.01	528	2.09	554	2.17	580	2.25	606	2.33	632	2.41	658	2.49
4 370	2200	302	1.63	331	1.71	361	1.79	393	1.87	427	1.95	454	2.03	480	2.11	506	2.19	532	2.27	558	2.35	584	2.43	610	2.51	636	2.59	662	2.67
4 390	2300	310	1.83	339	1.91	369	1.99	401	2.07	435	2.15	462	2.23	488	2.31	514	2.39	540	2.47	566	2.55	592	2.63	618	2.71	644	2.79	670	2.87
4 410	2400	320	2.03	349	2.11	379	2.19	411	2.27	445	2.35	472	2.43	498	2.51	524	2.59	550	2.67	576	2.75	602	2.83	628	2.91	654	2.99	680	3.07
4 430	2500	329	2.23	359	2.31	389	2.39	421	2.47	455	2.55	482	2.63	508	2.71	534	2.79	560	2.87	586	2.95	612	3.03	638	3.11	664	3.19	690	3.27
4 450	2600	338	2.43	369	2.51	399	2.59	431	2.67	465	2.75	492	2.83	518	2.91	544	2.99	570	3.07	596	3.15	622	3.23	648	3.31	674	3.39	700	3.47
4 470	2700	348	2.63	379	2.71	409	2.79	441	2.87	475	2.95	502	3.03	528	3.11	554	3.19	580	3.27	606	3.35	632	3.43	658	3.51	684	3.59	710	3.67
4 490	2800	358	2.83	389	2.91	419	2.99	451	3.07	485	3.15	512	3.23	538	3.31	564	3.39	590	3.47	616	3.55	642	3.63	668	3.71	694	3.79	720	3.87
4 510	2900	367	3.03	399	3.11	429	3.19	461	3.27	495	3.35	522	3.43	548	3.51	574	3.59	600	3.67	626	3.75	652	3.83	678	3.91	704	3.99	730	4.07
4 530	3000	377	3.23	409	3.31	439	3.39	471	3.47	505	3.55	532	3.63	558	3.71	584	3.79	610	3.87	636	3.95	662	4.03	688	4.11	714	4.19	740	4.27
4 550	3100	387	3.43	419	3.51	449	3.59	481	3.67	515	3.75	542	3.83	568	3.91	594	3.99	620	4.07	646	4.15	672	4.23	698	4.31	724	4.39	750	4.47
4 570	3200	397	3.63	429	3.71	459	3.79	491	3.87	525	3.95	552	4.03	578	4.11	604	4.19	630	4.27	656	4.35	682	4.43	708	4.51	734	4.59	760	4.67
4 590	3300	407	3.83	439	3.91	469	3.99	501	4.07	535	4.15	562	4.23	588	4.31	614	4.39	640	4.47	666	4.55	692	4.63	718	4.71	744	4.79	770	4.87
4 610	3400	417	4.03	449	4.11	479	4.19	511	4.27	545	4.35	572	4.43	598	4.51	624	4.59	650	4.67	676	4.75	702	4.83	728	4.91	754	4.99	780	5.07
4 630	3500	427	4.23	459	4.31	489	4.39	521	4.47	555	4.55	582	4.63	608	4.71	634	4.79	660	4.87	686	4.95	712	5.03	738	5.11	764	5.19	790	5.27
4 650	3600	437	4.43	469	4.51	499	4.59	531	4.67	565	4.75	592	4.83	618	4.91	644	4.99	670	5.07	696	5.15	722	5.23	748	5.31	774	5.39	800	5.47
4 670	3700	447	4.63	479	4.71	509	4.79	541	4.87	575	4.95	602	5.03	628	5.11	654	5.19	680	5.27	706	5.35	732	5.43	758	5.51	784	5.59	810	5.67
4 690	3800	457	4.83	489	4.91	519	4.99	551	5.07	585	5.15	612	5.23	638	5.31	664	5.39	690	5.47	716	5.55	742	5.63	768	5.71	794	5.79	820	5.87
4 710	3900	467	5.03	499	5.11	529	5.19	561	5.27	595	5.35	622	5.43	648	5.51	674	5.59	700	5.67	726	5.75	752	5.83	778	5.91	804	5.99	830	6.07
4 730	4000	477	5.23	509	5.31	539	5.39	571	5.47	605	5.55	632	5.63	658	5.71	684	5.79	710	5.87	736	5.95	762	6.03	788	6.11	814	6.19	840	6.27
4 750	4100	487	5.43	519	5.51	549	5.59	581	5.67	615	5.75	642	5.83	668	5.91	694	5.99	720	6.07	746	6.15	772	6.23	798	6.31	824	6.39	850	6.47
4 770	4200	497	5.63	529	5.71	559	5.79	591	5.87	625	5.95	652	6.03	678	6.11	704	6.19	730	6.27	756	6.35	782	6.43	808	6.51	834	6.59	860	6.67
4 790	4300	507	5.83	539	5.91	569	5.99	601	6.07	635	6.15	662	6.23	688	6.31	714	6.39	740	6.47	766	6.55	792	6.63	818	6.71	844	6.79	870	6.87
4 810	4400	517	6.03	549	6.11	579	6.19	611	6.27	645	6.35	672	6.43	698	6.51	724	6.59	750	6.67	776	6.75	802	6.83	828	6.91	854	6.99	880	7.07
4 830	4500	527	6.23	559	6.31	589	6.39	621	6.47	655	6.55	682	6.63	708	6.71	734	6.79	760	6.87	786	6.95	812	7.03	838	7.11	864	7.19	890	7.27
4 850	4600	537	6.43	569	6.51	599	6.59	631	6.67	665	6.75	692	6.83	718	6.91	744	6.99	770	7.07	796	7.15	822	7.23	848	7.31	874	7.39	900	7.47
4 870	4700	547	6.63	579	6.71	609	6.79	641	6.87	675	6.95	702	7.03	728	7.11	754	7.19	780	7.27	806	7.35	832	7.43	858	7.51	884	7.59	910	7.67
4 890	4800	557	6.83	589	6.91	619	6.99	651	7.07	685	7.15	712	7.23	738	7.31	764	7.39	790	7.47	816	7.55	842	7.63	868	7.71	894	7.79	920	7.87
4 910	4900	567	7.03	599	7.11	629	7.19	661	7.27	695	7.35	722	7.43	748	7.51	774	7.59	800	7.67	826	7.75	852	7.83	878	7.91	904	7.99	930	8.07
4 930	5000	577	7.23	609	7.31	639	7.39	671	7.47	705	7.55	732	7.63	758	7.71	784	7.79	810	7.87	836	7.95	862	8.03	888	8.11	914	8.19	940	8.27
4 950	5100	587	7.43	619	7.51	649	7.59	681	7.67	715	7.75	742	7.83	768	7.91	794	7.99	820	8.07	846	8.15	872	8.23	898	8.31	924	8.39	950	8.47
4 970	5200	597	7.63	629	7.71	659	7.79	691	7.87	725	7.95	752	8.03	778	8.11	804	8.19	830	8.27	856	8.35	882	8.43	908	8.51	934	8.59	960	8.67
4 990	5300	607	7.83	639	7.91	669	7.99	701	8.07	735	8.15	762	8.23	788	8.31	814	8.39	840	8.47	866	8.55	892	8.63	918	8.71	944	8.79	970	8.87

S I N G L E W I D T H

OUTLET AREA 6.165 SQ. FT.

Type ME Fan

NO. 33

SLOW SPEED WHEEL

S I N G L E I N L E T

WHEEL DIA. 33 INCHES
WHEEL CIRC. 9.435 FT.

CFM VOLUME	1/4" S P		3/8" S P		1/2" S P		5/8" S P		3/4" S P		7/8" S P		1" S P		1-1/4" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6 170	1000	.052	167	.46	229	.61	255	.95	283	1.17	305	1.49	325	1.87	342	2.26	357	2.66	371	3.04	385	3.43	397	3.82	408	4.21	419	4.60
7 780	1000	.076	203	.61	255	.86	283	1.05	305	1.24	325	1.58	342	1.98	357	2.37	371	2.76	385	3.15	397	3.54	408	3.93	419	4.32	430	4.71
8 810	1000	.099	239	.81	283	1.16	305	1.35	325	1.54	342	1.88	357	2.28	371	2.67	385	3.06	397	3.45	408	3.84	419	4.23	430	4.62	441	5.01
9 840	1000	.122	275	.93	329	1.27	357	1.56	385	1.85	408	2.19	423	2.58	438	2.97	453	3.36	468	3.75	483	4.14	498	4.53	513	4.92	528	5.31
10 870	1000	.145	311	1.05	365	1.38	397	1.67	423	1.94	448	2.31	463	2.69	478	3.08	493	3.47	508	3.86	523	4.25	538	4.64	553	5.03	568	5.42
11 900	1000	.168	347	1.17	401	1.49	423	1.78	448	2.05	473	2.42	488	2.81	503	3.20	518	3.59	533	3.98	548	4.37	563	4.76	578	5.15	593	5.54
12 930	1000	.191	383	1.29	437	1.60	463	1.89	488	2.16	513	2.53	528	2.92	543	3.31	558	3.70	573	4.09	588	4.48	603	4.87	618	5.26	633	5.65
13 960	1000	.214	419	1.41	473	1.71	498	2.00	523	2.23	548	2.60	563	2.99	578	3.38	593	3.77	608	4.16	623	4.55	638	4.94	653	5.33	668	5.72
14 990	1000	.237	455	1.53	509	1.82	534	2.11	559	2.34	584	2.71	599	3.10	614	3.49	629	3.88	644	4.27	659	4.66	674	5.05	689	5.44	704	5.83
15 1020	1000	.260	491	1.65	545	1.93	569	2.22	594	2.46	619	2.83	634	3.22	649	3.61	664	4.00	679	4.39	694	4.78	709	5.17	724	5.56	739	5.95
16 1050	1000	.283	527	1.77	581	2.04	605	2.33	630	2.59	655	2.96	670	3.35	685	3.74	700	4.13	715	4.52	730	4.91	745	5.30	760	5.69	775	6.08
17 1080	1000	.306	563	1.89	617	2.15	641	2.44	666	2.70	691	3.07	706	3.46	721	3.85	736	4.24	751	4.63	766	5.02	781	5.41	796	5.80	811	6.19
18 1110	1000	.329	600	2.01	653	2.26	677	2.55	702	2.81	727	3.18	742	3.57	757	3.96	772	4.35	787	4.74	802	5.13	817	5.52	832	5.91	847	6.30
19 1140	1000	.352	636	2.13	689	2.37	713	2.66	738	2.92	763	3.29	778	3.68	793	4.07	808	4.46	823	4.85	838	5.24	853	5.63	868	6.02	883	6.41
20 1170	1000	.375	672	2.25	725	2.48	749	2.77	774	3.03	799	3.40	814	3.79	829	4.18	844	4.57	859	4.96	874	5.35	889	5.74	904	6.13	919	6.52
21 1200	1000	.398	708	2.37	761	2.59	785	2.88	810	3.14	835	3.51	850	3.90	865	4.29	880	4.68	895	5.07	910	5.46	925	5.85	940	6.24	955	6.63
22 1230	1000	.421	744	2.49	797	2.70	821	2.99	846	3.25	871	3.62	886	4.01	901	4.40	916	4.79	931	5.18	946	5.57	961	5.96	976	6.35	991	6.74
23 1260	1000	.444	780	2.61	833	2.81	857	3.10	882	3.36	907	3.73	922	4.12	937	4.51	952	4.90	967	5.29	982	5.68	997	6.07	1012	6.46	1027	6.85
24 1290	1000	.467	816	2.73	869	2.92	893	3.21	918	3.47	943	3.84	958	4.23	973	4.62	988	5.01	1003	5.40	1018	5.79	1033	6.18	1048	6.57	1063	6.96

TYPE ME FAN

S I N G L E W I D T H

OUTLET AREA 7.337 SQ. FT.

Type ME Fan

NO. 36

SLOW SPEED WHEEL

S I N G L E I N L E T

WHEEL DIA. 36 INCHES
WHEEL CIRC. 9.435 FT.

CFM VOLUME	1/4" S P		3/8" S P		1/2" S P		5/8" S P		3/4" S P		7/8" S P		1" S P		1-1/4" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7 240	1000	.062	155	.48	210	.82	234	1.11	259	1.40	279	1.78	297	2.22	311	2.61	326	3.00	341	3.39	356	3.78	371	4.17	386	4.56	401	4.95
8 800	1000	.076	191	.60	246	1.03	270	1.32	294	1.61	314	1.99	332	2.46	347	2.85	362	3.24	377	3.63	392	4.02	407	4.41	422	4.80	437	5.19
9 840	1000	.099	227	.72	282	1.14	306	1.43	330	1.72	349	2.10	367	2.58	382	2.97	397	3.36	412	3.75	427	4.14	442	4.53	457	4.92	472	5.31
10 870	1000	.122	263	.84	318	1.25	342	1.54	366	1.83	385	2.21	403	2.69	418	3.08	433	3.47	448	3.86	463	4.25	478	4.64	493	5.03	508	5.42
11 900	1000	.145	299	.96	354	1.36	378	1.65	402	1.94	421	2.32	439	2.80	454	3.19	469	3.58	484	3.97	499	4.36	514	4.75	529	5.14	544	5.53
12 930	1000	.168	335	1.08	390	1.47	414	1.76	438	2.05	457	2.43	475	2.91	490	3.30	505	3.69	520	4.08	535	4.47	550	4.86	565	5.25	580	5.64
13 960	1000	.191	371	1.20	426	1.58	450	1.87	474	2.16	493	2.54	511	2.92	526	3.31	541	3.70	556	4.09	571	4.48	586	4.87	601	5.26	616	5.65
14 990	1000	.214	407	1.32	462	1.69	486	1.98	510	2.27	529	2.65	547	3.03	562	3.42	577	3.81	592	4.20	607	4.59	622	4.98	637	5.37	652	5.76
15 1020	1000	.237	443	1.44	502	1.79	526	2.07	550	2.36	569	2.74	587	3.12	602	3.51	617	3.90	632	4.29	647	4.68	662	5.07	677	5.46	692	5.85
16 1050	1000	.260	479	1.56	538	1.91	562	2.19	586	2.48	605	2.86	623	3.24	638	3.63	653	4.02	668	4.41	683	4.80	698	5.19	713	5.58	728	5.97
17 1080	1000	.283	515	1.68	574	2.02	598	2.30	622	2.59	641	2.97	659	3.35	674	3.74	689	4.13	704	4.52	719	4.91	734	5.30	749	5.69	764	6.08
18 1110	1000	.306	551	1.80	610	2.13	634	2.41	658	2.70	677	3.08	695	3.46	710	3.85	725	4.24	740	4.63	755	5.02	770	5.41	785	5.80	800	6.19
19 1140	1000	.329	587	1.92	646	2.24	670	2.52	694	2.81	713	3.19	731	3.57	746	3.96	761	4.35	776	4.74	791	5.13	806	5.52	821	5.91	836	6.30
20 1170	1000	.352	623	2.04	682	2.35	706	2.63	730	2.92	749	3.30	767	3.68	782	4.07	797	4.46	812	4.85	827	5.24	842	5.63	857	6.02	872	6.41
21 1200	1000	.375	659	2.16	718	2.46	742	2.74	766	3.03	785	3.41	803	3.79	818	4.18	833	4.57	848	4.96	863	5.35	878	5.74	893	6.13	908	6.52
22 1230	1000	.398	695	2.28	754	2.57	778	2.85	802	3.14	821	3.52	839	3.90	854	4.29	869	4.68	884	5.07	899	5.46	914	5.85	929	6.24	944	6.63
23 1260	1000	.421	731	2.40	790	2.68	814	2.96	838	3.25	857	3.63	875	4.01	890	4.40	905	4.79	920	5.18	935	5.57	950	5.96	965	6.35	980	6.74
24 1290	1000	.444	767	2.52	826	2.79	850	3.07	874	3.36	893	3.74	911	4.12	926	4.51	941	4.90	956	5.29	971	5.68	986	6.07	1001	6.46	1016	6.85

PL. #3605-2E-1M

AIA File No. 30-D-1

SINGLE INLET

Type ME Fan
NO. 39

SLOW SPEED WHEEL

SINGLE WIDTH

OUTLET AREA 6.611 SQ. FT.

WHEEL DIA. 58 INCHES
WHEEL CIRC. 10.210 FT.

CFM VOLUME	1/4" S P	3/8" S P	1/2" S P	5/8" S P	3/4" S P	7/8" S P	1" S P		1-1/4" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8 610	1000	1.05	1.14	1.23	1.33	1.43	259	2.09	275	2.61	306	3.72	336	4.81	388	7.34	412	8.74	435	10.18	452	11.20
9 670	1100	1.07	1.17	1.27	1.37	1.47	277	2.24	274	3.00	305	3.72	334	5.11	386	8.13	411	9.62	432	10.65	448	11.67
10 730	1200	1.09	1.19	1.29	1.39	1.49	277	2.44	274	3.20	305	3.72	334	5.45	386	8.47	411	9.96	432	10.99	448	12.01
11 790	1300	1.06	1.16	1.26	1.36	1.46	277	2.64	274	3.40	305	3.72	334	5.79	386	8.71	411	10.20	432	11.21	448	12.23
12 850	1400	1.11	1.21	1.31	1.41	1.51	277	2.84	274	3.60	305	3.72	334	6.13	386	9.05	411	10.41	432	11.42	448	12.44
13 910	1500	1.16	1.26	1.36	1.46	1.56	277	3.04	274	3.80	305	3.72	334	6.47	386	9.29	411	10.62	432	11.63	448	12.65
14 970	1600	1.21	1.31	1.41	1.51	1.61	277	3.24	274	4.00	305	3.72	334	6.81	386	9.53	411	10.83	432	11.84	448	12.86
15 1030	1700	1.26	1.36	1.46	1.56	1.66	277	3.44	274	4.20	305	3.72	334	7.15	386	9.79	411	11.04	432	12.05	448	13.07
16 1090	1800	1.31	1.41	1.51	1.61	1.71	277	3.64	274	4.40	305	3.72	334	7.49	386	10.05	411	11.25	432	12.26	448	13.28
17 1150	1900	1.36	1.46	1.56	1.66	1.76	277	3.84	274	4.60	305	3.72	334	7.83	386	10.31	411	11.46	432	12.47	448	13.49
18 1210	2000	1.41	1.51	1.61	1.71	1.81	277	4.04	274	4.80	305	3.72	334	8.17	386	10.57	411	11.67	432	12.68	448	13.70
19 1270	2100	1.46	1.56	1.66	1.76	1.86	277	4.24	274	5.00	305	3.72	334	8.51	386	10.83	411	11.88	432	12.89	448	13.91
20 1330	2200	1.51	1.61	1.71	1.81	1.91	277	4.44	274	5.20	305	3.72	334	8.85	386	11.09	411	12.09	432	13.10	448	14.12
21 1390	2300	1.56	1.66	1.76	1.86	1.96	277	4.64	274	5.40	305	3.72	334	9.19	386	11.30	411	12.30	432	13.31	448	14.33
22 1450	2400	1.61	1.71	1.81	1.91	2.01	277	4.84	274	5.60	305	3.72	334	9.53	386	11.51	411	12.51	432	13.52	448	14.54
23 1510	2500	1.66	1.76	1.86	1.96	2.06	277	5.04	274	5.80	305	3.72	334	9.87	386	11.72	411	12.72	432	13.73	448	14.75
24 1570	2600	1.71	1.81	1.91	2.01	2.11	277	5.24	274	6.00	305	3.72	334	10.21	386	11.93	411	12.93	432	13.94	448	14.96
25 1630	2700	1.76	1.86	1.96	2.06	2.16	277	5.44	274	6.20	305	3.72	334	10.55	386	12.14	411	13.14	432	14.15	448	15.17
26 1690	2800	1.81	1.91	2.01	2.11	2.21	277	5.64	274	6.40	305	3.72	334	10.89	386	12.35	411	13.35	432	14.36	448	15.38
27 1750	2900	1.86	1.96	2.06	2.16	2.26	277	5.84	274	6.60	305	3.72	334	11.23	386	12.56	411	13.56	432	14.57	448	15.59
28 1810	3000	1.91	2.01	2.11	2.21	2.31	277	6.04	274	6.80	305	3.72	334	11.57	386	12.77	411	13.77	432	14.78	448	15.80
29 1870	3100	1.96	2.06	2.16	2.26	2.36	277	6.24	274	7.00	305	3.72	334	11.91	386	12.98	411	13.98	432	14.99	448	16.01
30 1930	3200	2.01	2.11	2.21	2.31	2.41	277	6.44	274	7.20	305	3.72	334	12.25	386	13.19	411	14.19	432	15.20	448	16.22
31 1990	3300	2.06	2.16	2.26	2.36	2.46	277	6.64	274	7.40	305	3.72	334	12.59	386	13.40	411	14.40	432	15.41	448	16.43
32 2050	3400	2.11	2.21	2.31	2.41	2.51	277	6.84	274	7.60	305	3.72	334	12.93	386	13.61	411	14.61	432	15.62	448	16.64
33 2110	3500	2.16	2.26	2.36	2.46	2.56	277	7.04	274	7.80	305	3.72	334	13.27	386	13.82	411	14.82	432	15.83	448	16.85
34 2170	3600	2.21	2.31	2.41	2.51	2.61	277	7.24	274	8.00	305	3.72	334	13.61	386	14.03	411	15.03	432	16.04	448	17.06
35 2230	3700	2.26	2.36	2.46	2.56	2.66	277	7.44	274	8.20	305	3.72	334	13.95	386	14.24	411	15.24	432	16.25	448	17.27
36 2290	3800	2.31	2.41	2.51	2.61	2.71	277	7.64	274	8.40	305	3.72	334	14.29	386	14.45	411	15.45	432	16.46	448	17.48
37 2350	3900	2.36	2.46	2.56	2.66	2.76	277	7.84	274	8.60	305	3.72	334	14.63	386	14.66	411	15.66	432	16.67	448	17.69
38 2410	4000	2.41	2.51	2.61	2.71	2.81	277	8.04	274	8.80	305	3.72	334	14.97	386	14.87	411	15.87	432	16.88	448	17.90
39 2470	4100	2.46	2.56	2.66	2.76	2.86	277	8.24	274	9.00	305	3.72	334	15.31	386	15.08	411	16.08	432	17.09	448	18.11
40 2530	4200	2.51	2.61	2.71	2.81	2.91	277	8.44	274	9.20	305	3.72	334	15.65	386	15.29	411	16.29	432	17.30	448	18.32
41 2590	4300	2.56	2.66	2.76	2.86	2.96	277	8.64	274	9.40	305	3.72	334	15.99	386	15.50	411	16.50	432	17.51	448	18.53
42 2650	4400	2.61	2.71	2.81	2.91	3.01	277	8.84	274	9.60	305	3.72	334	16.33	386	15.71	411	16.71	432	17.72	448	18.74
43 2710	4500	2.66	2.76	2.86	2.96	3.06	277	9.04	274	9.80	305	3.72	334	16.67	386	15.92	411	16.92	432	17.93	448	18.95
44 2770	4600	2.71	2.81	2.91	3.01	3.11	277	9.24	274	10.00	305	3.72	334	17.01	386	16.13	411	17.13	432	18.14	448	19.16
45 2830	4700	2.76	2.86	2.96	3.06	3.16	277	9.44	274	10.20	305	3.72	334	17.35	386	16.34	411	17.34	432	18.35	448	19.37
46 2890	4800	2.81	2.91	3.01	3.11	3.21	277	9.64	274	10.40	305	3.72	334	17.69	386	16.55	411	17.55	432	18.56	448	19.58
47 2950	4900	2.86	2.96	3.06	3.16	3.26	277	9.84	274	10.60	305	3.72	334	18.03	386	16.76	411	17.76	432	18.77	448	19.79
48 3010	5000	2.91	3.01	3.11	3.21	3.31	277	10.04	274	10.80	305	3.72	334	18.37	386	16.97	411	17.97	432	18.98	448	20.00
49 3070	5100	2.96	3.06	3.16	3.26	3.36	277	10.24	274	11.00	305	3.72	334	18.71	386	17.18	411	18.18	432	19.19	448	20.21
50 3130	5200	3.01	3.11	3.21	3.31	3.41	277	10.44	274	11.20	305	3.72	334	19.05	386	17.39	411	18.39	432	19.40	448	20.42
51 3190	5300	3.06	3.16	3.26	3.36	3.46	277	10.64	274	11.40	305	3.72	334	19.39	386	17.60	411	18.60	432	19.61	448	20.63
52 3250	5400	3.11	3.21	3.31	3.41	3.51	277	10.84	274	11.60	305	3.72	334	19.73	386	17.81	411	18.81	432	19.82	448	20.84
53 3310	5500	3.16	3.26	3.36	3.46	3.56	277	11.04	274	11.80	305	3.72	334	20.07	386	18.02	411	19.02	432	20.03	448	21.05
54 3370	5600	3.21	3.31	3.41	3.51	3.61	277	11.24	274	12.00	305	3.72	334	20.41	386	18.23	411	19.23	432	20.24	448	21.26
55 3430	5700	3.26	3.36	3.46	3.56	3.66	277	11.44	274	12.20	305	3.72	334	20.75	386	18.44	411	19.44	432	20.45	448	21.47
56 3490	5800	3.31	3.41	3.51	3.61	3.71	277	11.64	274	12.40	305	3.72	334	21.09	386	18.65	411	19.65	432	20.66	448	21.68
57 3550	5900	3.36	3.46	3.56	3.66	3.76	277	11.84	274	12.60	305	3.72	334	21.43	386	18.86	411	19.86	432	20.87	448	21.89
58 3610	6000	3.41	3.51	3.61	3.71	3.81	277	12.04	274	12.80	305	3.72	334	21.77	386	19.07	411	20.07	432	21.08	448	22.10
59 3670	6100	3.46	3.56	3.66	3.76	3.86	277	12.24	274	13.00	305	3.72	334	22.11	386	19.28	411	20.28	432	21.29	448	22.31
60 3730	6200	3.51	3.61	3.71	3.81	3.91	277	12.44	274	13.20	305	3.72	334	22.45	386	19.49	411	20.49	432	21.50	448	22.52
61 3790	6300	3.56	3.66	3.76	3.86	3.96	277	12.64	274	13.40	305	3.72	334	22.79	386	19.70	411	20.70	432	21.71	448	22.73

SINGLE WIDTH

Type ME Fan

NO. 49

SLOW SPEED WHEEL

SINGLE INLET

WHEEL DIA. 49 INCHES
WHEEL CIRC. 15.625 FT.

CFM VOLUME	1/4" S P		3/8" S P		1/2" S P		5/8" S P		3/4" S P		7/8" S P		1" S P		1-1/4" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13 590	1000	1.07	135	1.34	154	1.70	172	2.58	205	3.29	219	4.11	268	7.58	289	9.54	308	11.59	328	13.80	346	16.06	379	21.30				
14 540	1100	1.19	145	1.45	167	1.80	188	2.78	234	3.54	234	4.11	284	8.06	308	10.04	327	12.12	346	14.35	379	18.80	417	25.40				
15 510	1200	1.30	155	1.57	182	1.95	205	3.03	266	4.03	254	4.84	304	8.66	327	10.60	346	13.55	379	15.16	417	19.68	457	28.90				
16 510	1300	1.42	165	1.70	199	2.10	222	3.33	294	4.33	266	5.12	324	9.26	346	11.20	368	14.59	399	16.06	447	20.50	497	33.90				
17 670	1400	1.56	175	1.86	212	2.25	238	3.66	314	4.66	286	5.40	344	9.86	368	11.80	388	15.59	417	16.98	477	21.30	527	38.90				
18 670	1500	1.71	185	2.06	229	2.40	260	3.98	344	5.00	304	5.96	364	10.46	388	12.40	408	16.59	437	17.86	497	22.10	547	43.90				
19 740	1600	1.86	195	2.23	242	2.57	276	4.32	374	5.42	324	6.19	384	11.06	408	12.90	428	17.59	457	18.74	517	22.90	567	48.90				
20 740	1700	2.02	205	2.40	258	2.76	296	4.68	404	5.82	344	6.80	404	11.66	428	13.50	448	18.59	477	19.62	537	23.70	587	53.90				
21 820	1800	2.19	215	2.59	274	2.93	318	5.06	434	6.18	364	7.22	424	12.26	448	14.10	468	19.59	497	20.50	557	24.50	607	58.90				
22 820	1900	2.37	225	2.79	292	3.13	339	5.46	464	6.54	384	7.62	444	12.86	468	14.70	488	20.59	517	21.30	577	25.30	627	63.90				
23 820	2000	2.56	235	3.01	312	3.33	361	5.82	494	6.90	404	8.14	464	13.46	488	15.30	508	21.59	537	22.10	597	26.10	647	68.90				
24 820	2100	2.75	245	3.23	332	3.53	385	6.20	524	7.26	424	8.58	484	14.06	508	15.90	528	22.59	557	22.90	617	26.90	667	73.90				
25 820	2200	2.95	255	3.46	352	3.73	411	6.58	554	7.62	444	9.02	504	14.66	528	16.50	548	23.59	577	23.70	637	27.70	687	78.90				
26 820	2300	3.15	265	3.69	372	3.93	439	6.96	584	7.98	464	9.46	534	15.26	548	17.10	568	24.59	597	24.50	657	28.50	707	83.90				
27 820	2400	3.36	275	3.92	392	4.13	469	7.34	614	8.34	484	9.90	564	15.86	568	17.70	588	25.59	617	25.30	677	29.30	727	88.90				
28 540	2500	3.57	285	4.15	412	4.34	499	7.72	644	8.70	504	10.34	594	16.46	588	18.30	608	26.59	637	26.10	697	30.10	747	93.90				
29 540	2600	3.79	295	4.38	432	4.55	529	8.10	674	9.06	524	10.78	624	17.06	608	18.90	628	27.59	657	26.90	717	30.90	767	98.90				
30 540	2700	4.01	305	4.61	452	4.76	559	8.48	704	9.42	544	11.22	654	17.66	628	19.50	648	28.59	677	27.70	737	31.70	787	103.90				
31 540	2800	4.23	315	4.84	472	4.97	589	8.86	734	9.78	564	11.66	684	18.26	648	20.10	668	29.59	697	28.50	757	32.50	807	108.90				
32 540	2900	4.45	325	5.07	492	5.18	619	9.24	764	10.14	584	12.10	714	18.86	668	20.70	688	30.59	717	29.30	777	33.30	827	113.90				
33 540	3000	4.67	335	5.30	512	5.39	649	9.62	794	10.50	604	12.54	744	19.46	688	21.30	708	31.59	737	30.10	797	34.10	847	118.90				
34 540	3100	4.89	345	5.53	532	5.60	679	10.00	824	10.90	624	12.98	774	20.06	708	21.90	728	32.59	757	30.90	817	34.90	867	123.90				
35 540	3200	5.11	355	5.75	552	5.81	709	10.38	854	11.28	644	13.42	804	20.66	728	22.50	748	33.59	777	31.70	837	35.70	887	128.90				
36 540	3300	5.33	365	5.98	572	6.02	739	10.76	884	11.66	664	13.86	834	21.26	748	23.10	768	34.59	797	32.50	857	36.50	907	133.90				
37 540	3400	5.55	375	6.20	592	6.23	769	11.14	914	12.04	684	14.30	864	21.86	768	23.70	788	35.59	817	33.30	877	37.30	927	138.90				
38 540	3500	5.77	385	6.43	612	6.44	799	11.52	944	12.42	704	14.74	894	22.46	788	24.30	808	36.59	837	34.10	897	38.10	947	143.90				
39 540	3600	5.99	395	6.65	632	6.65	829	11.90	974	12.80	724	15.18	924	23.06	808	24.90	828	37.59	857	34.90	917	38.90	967	148.90				
40 540	3700	6.21	405	6.88	652	6.86	859	12.28	1004	13.18	744	15.62	954	23.66	828	25.50	848	38.59	877	35.70	937	39.70	987	153.90				
41 540	3800	6.43	415	7.10	672	7.07	889	12.66	1034	13.56	764	16.06	984	24.26	848	26.10	868	39.59	897	36.50	957	40.50	1007	158.90				
42 540	3900	6.65	425	7.32	692	7.28	919	13.04	1064	13.94	784	16.50	1014	24.86	868	26.70	888	40.59	917	37.30	977	41.30	1027	163.90				
43 540	4000	6.87	435	7.54	712	7.49	949	13.42	1094	14.32	804	16.94	1044	25.46	888	27.30	908	41.59	937	38.10	997	42.10	1047	168.90				
44 540	4100	7.09	445	7.76	732	7.70	979	13.80	1124	14.70	824	17.38	1074	26.06	908	27.90	928	42.59	957	38.90	1017	42.90	1067	173.90				
45 540	4200	7.31	455	7.98	752	7.91	1009	14.18	1154	15.08	844	17.82	1104	26.66	928	28.50	948	43.59	977	39.70	1037	43.70	1087	178.90				
46 540	4300	7.53	465	8.20	772	8.12	1039	14.56	1184	15.46	864	18.26	1134	27.26	948	29.10	968	44.59	997	40.50	1057	44.50	1107	183.90				
47 540	4400	7.75	475	8.42	792	8.33	1069	14.94	1214	15.84	884	18.70	1164	27.86	968	29.70	988	45.59	1017	41.30	1077	45.30	1127	188.90				
48 540	4500	7.97	485	8.64	812	8.54	1099	15.32	1244	16.22	904	19.14	1194	28.46	988	30.30	1008	46.59	1037	42.10	1097	46.10	1147	193.90				
49 540	4600	8.19	495	8.86	832	8.75	1129	15.70	1274	16.60	924	19.58	1224	29.06	1008	30.90	1028	47.59	1057	42.90	1117	46.90	1167	198.90				
50 540	4700	8.41	505	9.08	852	8.96	1159	16.08	1304	17.00	944	20.02	1254	29.66	1028	31.50	1048	48.59	1077	43.70	1137	47.70	1187	203.90				
51 540	4800	8.63	515	9.30	872	9.17	1189	16.46	1334	17.38	964	20.46	1284	30.26	1048	32.10	1068	49.59	1097	44.50	1157	48.50	1207	208.90				
52 540	4900	8.85	525	9.52	892	9.38	1219	16.84	1364	17.76	984	20.90	1314	30.86	1068	32.70	1088	50.59	1117	45.30	1177	49.30	1227	213.90				
53 540	5000	9.07	535	9.74	912	9.59	1249	17.22	1394	18.14	1004	21.34	1344	31.46	1088	33.30	1108	51.59	1137	46.10	1197	50.10	1247	218.90				
54 540	5100	9.29	545	9.96	932	9.80	1279	17.60	1424	18.52	1024	21.78	1374	32.06	1108	33.90	1128	52.59	1157	46.90	1217	50.90	1267	223.90				
55 540	5200	9.51	555	10.18	952	10.01	1309	17.98	1454	18.90	1044	22.16	1404	32.66	1128	34.50	1148	53.59	1177	47.70	1237	51.70	1287	228.90				
56 540	5300	9.73	565	10.40	972	10.22	1339	18.36	1484	19.28	1064	22.60	1434	33.26	1148	35.10	1168	54.59	1197	48.50	1257	52.50	1307	233.90				
57 540	5400	9.95	575	10.62	992	10.43	1369	18.74	1514	19.66	1084	23.04	1464	33.86	1168	35.70	1188	55.59	1217	49.30	1277	53.30	1327	238.90				
58 540	5500	10.17	585	10.84	1012	10.64	1399	19.12	1544	20.04	1104	23.48	1494	34.46	1188	36.30	1208	56.59	1237	50.10	1297							

AIA File No. 30-D-1

SINGLE INLET

Type ME Fan

NO. 60

SLOW SPEED WHEEL

SINGLE WIDTH
WHEEL DIA. 60 INCHES
WHEEL CIRC. 18.71 FT.
OUTLET AREA 30.38 SQ. FT.

CFM VOLUME	1/4" S P		3/8" S P		1/2" S P		5/8" S P		3/4" S P		7/8" S P		1" S P		1-1/4" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20 800	95	1.52	110	2.03	126	2.54	140	3.15	155	3.86	167	4.23	179	4.55														
22 1200	95	1.85	112	2.32	128	3.06	142	3.48	157	4.19	169	4.56																
24 1600	95	2.10	114	2.69	130	3.33	144	3.81	159	4.52	171	4.89																
26 490	102	2.43	117	3.08	133	3.72	147	4.20	162	4.91	174	5.28																
28 590	102	2.81	119	3.54	135	4.23	149	4.75	164	5.46	176	5.83																
30 570	109	3.24	122	4.00	138	4.75	152	5.21	167	5.94	179	6.31																
32 610	113	3.72	126	4.53	142	5.33	156	5.85	171	6.56	183	6.93																
34 650	117	4.24	129	5.08	145	5.85	159	6.36	174	7.08	186	7.45																
36 680	121	4.83	133	5.75	149	6.44	163	6.96	178	7.69	190	8.06																
38 720	125	5.34	136	6.41	152	7.07	167	7.58	182	8.30	194	8.67																
40 760	129	6.09	140	7.20	156	8.16	170	8.70	185	9.42	197	9.79																
42 800	133	6.75	144	8.03	160	9.00	174	9.52	189	10.24	201	10.61																
44 840	138	7.36	149	8.94	167	9.94	179	10.46	193	11.18	205	11.55																
46 870	141	8.31	154	9.90	171	12.05	183	12.57	198	13.29	210	13.66																
48 910	146	9.30	157	11.10	165	12.15	178	13.20	192	14.00	204	14.37																
50 950	151	10.30	161	12.01	169	13.14	182	14.21	196	15.04	208	15.41																
52 990	156	11.33	166	13.07	173	14.50	187	15.19	201	16.04	213	16.41																
54 1030	161	12.40	171	14.23	178	15.55	192	16.16	205	17.17	217	17.54																
56 1070	166	13.50	176	15.38	182	16.66	197	17.28	210	18.29	222	18.66																
58 1110	171	14.63	181	16.53	187	17.79	201	18.40	215	19.41	227	19.78																
60 1150	176	15.79	186	17.72	192	18.90	206	19.51	220	20.42	232	20.79																
62 1190	181	16.96	191	18.89	197	20.02	211	20.63	225	21.54	237	21.91																
64 1230	186	18.15	196	20.17	202	21.14	216	21.75	230	22.66	242	23.03																
66 1270	191	19.36	201	21.40	207	22.26	221	22.87	235	23.58	247	23.95																
68 1310	196	20.59	206	22.65	212	23.37	226	23.98	240	24.89	252	25.26																
70 1350	201	21.84	211	23.90	217	24.46	231	25.09	245	26.00	257	26.37																
72 1390	206	23.10	216	25.17	222	25.95	236	26.20	250	27.11	262	27.48																
74 1430	211	24.37	221	26.46	227	27.22	241	27.33	255	28.24	267	28.61																
76 1470	216	25.65	226	27.74	232	28.49	246	28.50	260	29.41	272	29.78																
78 1510	221	26.94	231	29.01	237	29.74	251	30.01	265	30.92	277	31.29																
80 1550	226	28.24	236	30.28	242	30.96	256	31.22	270	32.13	282	32.50																
82 1590	231	29.54	241	31.57	247	32.21	261	32.43	275	33.04	287	33.41																
84 1630	236	30.85	246	32.88	252	33.48	266	33.70	280	34.35	292	34.72																
86 1670	241	32.16	251	34.19	257	34.71	271	35.03	285	35.64	297	36.01																
88 1710	246	33.47	256	35.50	262	35.94	276	35.85	290	36.75	302	37.12																
90 1750	251	34.78	261	36.81	267	37.18	281	37.40	295	37.96	307	38.33																
92 1790	256	36.09	266	38.12	272	38.49	286	38.71	300	39.07	312	39.44																
94 1830	261	37.40	271	39.43	277	39.79	291	39.91	305	40.58	317	40.95																
96 1870	266	38.71	276	40.74	282	41.00	296	41.22	310	41.89	322	42.26																
98 1910	271	40.02	281	42.05	287	42.30	301	42.52	315	43.19	327	43.63																
100 1950	276	41.33	286	43.36	292	43.61	306	43.83	320	44.50	332	44.94																
102 1990	281	42.64	291	44.67	297	44.92	311	45.14	325	45.81	337	46.25																
104 2030	286	43.95	296	45.98	302	46.23	316	46.45	330	47.12	340	47.56																
106 2070	291	45.26	301	47.29	307	47.48	321	47.70	335	48.37	345	48.81																
108 2110	296	46.57	306	48.60	312	48.79	326	49.01	340	49.60	350	50.04																
110 2150	301	47.88	311	49.91	317	49.99	331	50.22	345	50.81	355	51.25																
112 2190	306	49.19	316	51.22	322	51.17	336	51.44	350	52.00	360	52.44																
114 2230	311	50.50	321	52.53	327	52.47	341	52.69	355	53.59	365	54.03																
116 2270	316	51.81	326	53.84	332	53.78	346	53.99	360	54.88	370	55.32																
118 2310	321	53.12	331	55.15	337	55.09	351	55.30	365	56.17	375	56.61																
120 2350	326	54.43	336	56.46	342	56.40	356	56.61	370	57.50	380	57.94																
122 2390	331	55.74	341	57.77	347	57.71	361	57.92	375	58.79	385	59.23																
124 2430	336	57.05	346	59.08	352	59.02	366	59.23	380	60.12	390	60.56																
126 2470	341	58.36	351	60.39	357	60.33	371	60.54	385	61.41	395	61.85																
128 2510	346	59.67	356	61.70	362	61.64	376	61.85	390	62.70	400	63.14																
130 2550	351	60.98	361	63.01	367	62.95	381	63.16	395	63.59	405	64.03																
132 2590	356	62.29	366	64.32	372	64.26	386	64.37	400	64.98	410	65.42																
134 2630	361	63.60	371	65.63	377	65.57	391	65.68	405	66.37	415	66.81																
136 2670	366	64.91	376	66.94	382	66.88	396	66.99	410	67.68	420	68.12																
138 2710	371	66.22	381	68.25	387	68.19	401	68.30	415	68.99	425	69.43																
140 2750	376	67.53	386	69.56	392	69.50	406	69.61	420	70.28	430	70.72																

NO. 73 *Type ME Fan* SLOW SPEED WHEEL

SINGLE INLET
WHEEL DIA. 75 INCHES
WHEEL CIRC. 23.541 FT.

SINGLE INLET
WHEEL DIA. 75 INCHES
WHEEL CIRC. 23.541 FT.

CFM VOLUME	1/4" S P		3/8" S P		1/2" S P		5/8" S P		3/4" S P		7/8" S P		1" S P		1-1/8" S P		1-1/2" S P		1-3/4" S P		2" S P		2-1/4" S P		2-1/2" S P		3" S P	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
50 160	76	2.25	92	3.43	104	4.66	116	5.77	128	6.74	138	7.88	147	9.13														
55 180	79	2.66	95	4.09	107	5.36	119	6.61	131	7.88	141	9.13	150	10.48														
60 200	81	3.10	97	4.64	109	5.91	121	7.16	133	8.43	143	9.68	152	11.03														
65 220	84	3.60	100	5.24	112	6.54	124	7.76	136	9.27	146	10.50	155	12.37														
70 240	87	4.16	103	5.92	115	7.26	127	8.43	139	10.27	149	11.68	158	13.71														
75 260	90	4.80	106	6.71	118	8.03	130	9.03	142	10.23	152	12.50	161	15.10														
80 280	93	5.51	109	7.62	121	9.93	133	10.66	145	11.57	155	13.52	164	17.19														
85 300	97	6.30	112	8.58	124	10.66	136	12.35	148	13.87	158	15.61	167	18.15														
90 320	100	7.22	115	9.64	127	11.14	139	12.25	151	14.68	161	16.85	170	20.40														
95 340	104	8.20	119	10.76	131	12.37	143	12.35	155	16.28	165	18.54	174	22.80														
100 360	107	9.22	122	11.94	134	13.43	146	13.51	158	17.57	167	20.40	178	24.80														
105 380	111	10.30	126	13.20	138	14.61	150	14.71	162	18.80	171	21.50	182	26.40														
110 400	115	11.44	130	14.58	142	15.87	154	15.91	166	20.40	175	23.10	186	28.80														
115 420	119	12.72	134	16.06	146	17.16	158	16.28	168	22.80	179	24.80	190	31.30														
120 440	123	14.06	138	17.64	150	18.54	162	17.50	172	24.40	185	26.60	194	34.40														
125 460	127	15.44	142	19.30	154	19.50	166	18.54	176	26.40	188	28.40	198	37.60														
130 480	131	16.86	146	21.06	158	20.40	170	20.00	182	28.40	190	30.70	201	40.80														
135 500	135	18.34	150	22.86	162	22.80	174	23.10	186	30.40	194	32.80	205	44.00														
140 520	139	19.86	154	24.72	166	24.80	178	24.80	190	33.30	198	35.20	209	47.60														
145 540	143	21.44	158	26.64	170	26.40	182	26.40	194	34.40	201	36.40	213	50.00														
150 560	147	23.06	162	28.64	174	28.40	186	28.40	198	35.30	205	38.80	217	52.80														
155 580	151	24.72	166	30.70	178	30.40	190	30.40	201	37.30	209	40.80	221	56.00														
160 600	155	26.44	170	32.86	182	32.80	194	32.80	205	39.60	213	42.40	225	58.40														
165 620	159	28.20	174	35.06	186	34.40	198	34.40	209	41.60	217	44.00	229	60.80														
170 640	163	30.00	178	37.30	190	36.40	201	36.40	213	43.60	221	46.40	233	64.00														
175 660	167	31.86	182	39.60	194	38.40	205	38.40	217	45.60	225	48.40	237	67.20														
180 680	171	33.76	186	41.96	198	40.40	209	40.40	221	47.60	229	50.00	241	70.40														
185 700	175	35.70	190	44.36	201	42.40	213	42.40	225	49.60	233	52.80	245	72.80														
190 720	179	37.74	194	46.80	205	44.40	217	44.40	229	51.20	237	54.40	249	75.20														
195 740	183	39.80	198	49.30	209	46.40	221	46.40	233	53.60	241	56.00	253	77.60														
200 760	187	41.86	201	51.86	213	48.40	225	48.40	237	55.60	245	58.40	257	80.00														
205 780	191	43.96	205	54.40	217	50.40	229	50.40	241	58.40	249	60.80	261	82.40														
210 800	195	46.10	209	56.96	221	52.40	233	52.40	245	60.80	253	63.20	265	84.80														
215 820	199	48.26	213	59.54	225	54.40	237	54.40	249	62.40	257	65.60	269	87.20														
220 840	203	50.44	217	62.14	229	56.40	241	56.40	253	64.40	261	68.00	273	90.40														
225 860	207	52.64	221	64.78	233	58.40	245	58.40	257	66.40	265	70.40	277	92.80														
230 880	211	54.86	225	67.46	237	60.40	249	60.40	261	68.40	269	72.80	281	95.20														
235 900	215	57.10	229	70.14	241	62.40	253	62.40	265	70.40	273	74.80	285	97.60														
240 920	219	59.36	233	72.86	245	64.40	257	64.40	269	72.80	277	76.80	289	100.00														
245 940	223	61.64	237	75.60	249	66.40	261	66.40	273	74.80	281	78.80	293	102.40														
250 960	227	63.94	241	78.36	253	68.40	265	68.40	277	76.80	285	80.80	297	104.80														
255 980	231	66.26	245	81.14	257	70.40	269	70.40	281	78.80	289	82.40	301	107.20														
260 1000	235	68.60	249	83.94	261	72.40	273	72.40	285	80.80	293	84.80	305	109.60														
265 1020	239	70.96	253	86.76	265	74.40	277	74.40	289	82.80	297	87.20	309	112.00														
270 1040	243	73.34	257	89.60	269	76.40	281	76.40	293	84.80	301	89.60	313	114.40														
275 1060	247	75.74	261	92.46	273	78.40	285	78.40	297	86.80	305	92.00	317	116.80														
280 1080	251	78.16	265	95.34	277	80.40	289	80.40	301	88.80	309	94.40	321	119.20														
285 1100	255	80.60	269	98.24	281	82.40	293	82.40	305	90.80	313	96.80	325	121.60														
290 1120	259	83.06	273	101.16	285	84.40	297	84.40	309	92.80	317	98.40	329	124.00														
295 1140	263	85.54	277	104.10	289	86.40	301	86.40	313	94.80	321	100.80	333	126.40														
300 1160	267	88.04	281	107.06	293	88.40	305	88.40	317	96.80	325	102.80	337	128.80														
305 1180	271	90.56	285	110.04	297	90.40	309	90.40	321	98.80	329	104.80	341	131.20														
310 1200	275	93.10	289	113.04	301	92.40	313	92.40	325	100.80	333	106.80	345	133.60														
315 1220	279	95.66	293	116.06	305	94.40	317	94.40	329	102.80	337	108.80	349	136.00														
320 1240	283	98.22	297	119.10	309	96.40	321	96.40	333	104.80	341	110.80	353	138.40														
325 1260	287	100.80	301	122.16	313	98.40	325	98.40	337	106.80	345	112.80	357	140.80														
330 1280	291	103.40	305	125.22	317	100.40	329	100.40	341	108.80	349	114.80	361	143.20														
335 1300																												

PHYSICAL FAN LAWS

FAN PERFORMANCE AND SELECTION -

In the selection and operation of fans, the SIZE, RPM (or Speed), CFM (or Capacity), BHP (or Horsepower), and PRESSURE (Static, Velocity, or Total), each has a fixed and definite relation to the other.

In conjunction with the Capacity Tables in the preceding pages, the following accepted Physical Fan Laws are reviewed:

FOR A GIVEN FAN SIZE, PIPING SYSTEM, AND AIR DENSITY -

1. CFM varies directly as RPM.
2. PRESSURE varies as the square of the RPM.
3. BHP varies as cube of the RPM.

The following fundamental formulae are also reviewed:

$$(1). \quad \text{BHP} = \frac{\text{CFM} \times \text{TOTAL PRESSURE}^*}{6356 \times \text{MECH. EFF.}}$$

$$(2). \quad \text{MECH. EFF.} = \frac{\text{CFM} \times \text{TOTAL PRESSURE}^*}{6356 \times \text{BHP}}$$

* Total Pressure equals
Static Pressure plus Velocity Pressure.

If no change is made in any part of a given system, (such as changing dampers, ducts, heaters or other equipment), an increase or decrease of air delivery will be obtained in direct ratio with change of speed; and power demand will vary from BHP given in Tables in the ratio of the cube of the speeds.

The Capacity Tables are based upon Standard Air at 68°F Temperature. For different temperatures, in ordinary practice the Capacity Tables will apply by increasing the RPM for higher temperatures and decreasing the RPM for lower temperatures. (This is due to change of air density due to influence of temperature.)

The tabulation on the next page illustrates effects of temperature upon various elements of performance.

TYPE ME FAN

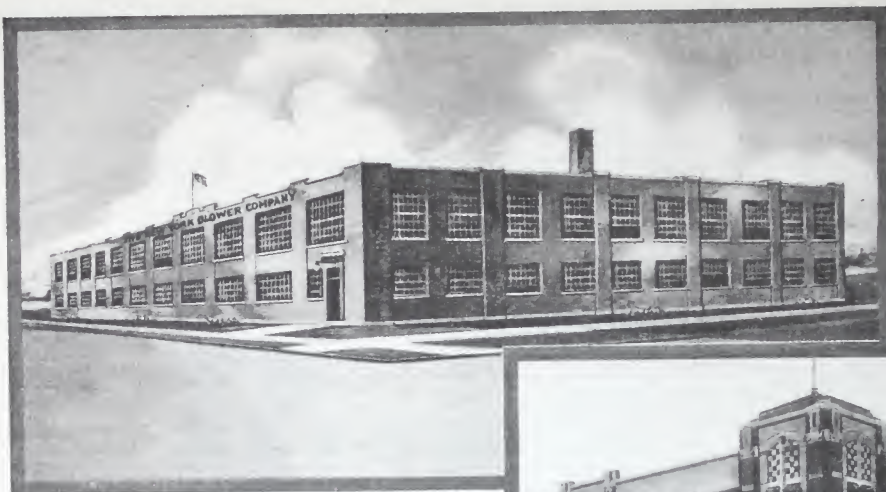
Influence of the Temperature of Air upon the Conditions of its Movement.

Temperature in Degrees Fahr.	Relative Velocity Due to the Same Pressure	Relative Pressure Necessary to Produce the Same Velocity	Relative Weight of Air Moved at the Same Velocity	Relative Velocity Necessary to Move the Same Weight of Air	Relative Pressure Necessary to Produce the Velocity to Move the Same Weight of Air	Relative Power Necessary to Move the Same Volume of Air at the Same Velocity	Relative Power Necessary to Move the Same Weight of Air at the Velocity in Column 5 and the Pressure in Column 6.
1	2	3	4	5	6	7	8
30°	0.98	1.04	1.04	0.96	0.96	1.04	0.92
40	0.99	1.02	1.02	0.98	0.98	1.02	0.96
50	1.00	1.00	1.00	1.00	1.00	1.00	1.00
60	1.01	0.98	0.98	1.02	1.02	0.98	1.04
70	1.02	0.96	0.96	1.04	1.04	0.96	1.08
80	1.03	0.94	0.94	1.06	1.06	0.94	1.12
90	1.04	0.93	0.93	1.08	1.08	0.93	1.17
100	1.05	0.91	0.91	1.10	1.10	0.91	1.21
125	1.07	0.87	0.87	1.15	1.15	0.87	1.32
150	1.09	0.84	0.84	1.20	1.20	0.84	1.43
175	1.11	0.81	0.81	1.24	1.24	0.81	1.55
200	1.14	0.78	0.78	1.29	1.29	0.78	1.67
225	1.16	0.75	0.75	1.34	1.34	0.75	1.80
250	1.18	0.72	0.72	1.39	1.39	0.72	1.93
275	1.20	0.69	0.69	1.44	1.44	0.69	2.07
300	1.22	0.67	0.67	1.49	1.49	0.67	2.22
325	1.24	0.65	0.65	1.54	1.54	0.65	2.36
350	1.26	0.63	0.63	1.59	1.59	0.63	2.51
375	1.28	0.61	0.61	1.63	1.63	0.61	2.66
400	1.30	0.59	0.59	1.68	1.68	0.59	2.82
425	1.32	0.58	0.58	1.73	1.73	0.58	2.99
450	1.34	0.56	0.56	1.78	1.78	0.56	3.17
475	1.36	0.55	0.55	1.82	1.82	0.55	3.35
500	1.37	0.53	0.53	1.88	1.88	0.53	3.53
525	1.39	0.52	0.52	1.93	1.93	0.52	3.72
550	1.41	0.51	0.51	1.98	1.98	0.51	3.92
575	1.43	0.49	0.49	2.03	2.03	0.49	4.12
600	1.44	0.48	0.48	2.08	2.08	0.48	4.33
625	1.46	0.47	0.47	2.13	2.13	0.47	4.54
650	1.48	0.46	0.46	2.18	2.18	0.46	4.75
675	1.49	0.45	0.45	2.23	2.23	0.45	4.95
700	1.51	0.44	0.44	2.27	2.27	0.44	5.15
725	1.52	0.43	0.43	2.32	2.32	0.43	5.38
750	1.54	0.42	0.42	2.37	2.37	0.42	5.61
775	1.56	0.41	0.41	2.42	2.42	0.41	5.86
800	1.57	0.40	0.40	2.47	2.47	0.40	6.10

For Engineers and Students interested in the fundamentals and physics of Fan Engineering and Design, reference is made to the basic laws of physics as elaborated in the GUIDE of the American Society of Heating & Ventilating Engineers, and also the STANDARD TEST CODE FOR CENTRIFUGAL FANS, copy of which will be furnished upon inquiry to Home Office of the New York Blower Company.

Properties of Dry Air

Temp. Deg. F.	Weight per Cu. Ft. Lbs.	Cu. Ft. in 1 Lb. of Air	Percent Volume at 70° F.	B.t.u. Absorbed by 1 Cu. Ft. per Deg. F.	Cu. Ft. Warmed 1 Deg. per B.t.u.	Temp. Deg. F.	Weight per Cu. Ft. Lbs.	Cu. Ft. in 1 Lb. of Air	Percent Volume at 70° F.	B.t.u. Absorbed by 1 Cu. Ft. per Deg. F.	Cu. Ft. Warmed 1 Deg. per B.t.u.
0	.0863	11.5	.868	.0208	48.0	140	.0662	15.0	1.132	.0160	62.3
5	.0854	11.7	.877	.0206	48.5	150	.0651	15.3	1.151	.0157	63.3
10	.0845	11.8	.886	.0203	49.0	160	.0640	15.6	1.170	.0155	64.3
15	.0836	11.9	.896	.0201	49.5	170	.0630	15.8	1.189	.0153	65.3
20	.0827	12.0	.905	.0199	50.0	180	.0620	16.1	1.208	.0150	66.4
25	.0819	12.2	.915	.0197	50.5	190	.0611	16.3	1.227	.0148	67.4
30	.0810	12.3	.924	.0195	51.1	200	.0601	16.6	1.245	.0146	68.4
35	.0802	12.4	.934	.0193	51.6	220	.0584	17.1	1.283	.0141	70.4
40	.0794	12.6	.943	.0191	52.1	240	.0567	17.6	1.321	.0138	72.4
45	.0786	12.8	.953	.0190	52.6	260	.0551	18.1	1.359	.0134	74.4
50	.0778	12.9	.962	.0188	53.1	280	.0536	18.6	1.396	.0130	76.4
55	.0771	13.0	.971	.0186	53.6	300	.0522	19.1	1.434	.0127	78.5
60	.0764	13.1	.981	.0184	54.1	350	.0490	20.4	1.528	.0119	83.5
65	.0756	13.2	.990	.0182	54.6	400	.0461	21.7	1.623	.0113	88.5
70	.0749	13.3	1.000	.0181	55.1	450	.0436	22.9	1.717	.0107	93.4
75	.0742	13.4	1.009	.0179	55.7	500	.0413	24.1	1.811	.0101	98.2
80	.0735	13.6	1.019	.0177	56.2	550	.0393	25.4	1.906	.0096	103.4
85	.0728	13.7	1.028	.0176	56.7	600	.0374	26.7	2.001	.0092	108.3
90	.0722	13.8	1.038	.0174	57.2	700	.0342	29.2	2.190	.0084	118.0
95	.0715	13.9	1.047	.0173	57.7	800	.0315	31.7	2.378	.0078	127.8
100	.0709	14.0	1.057	.0171	58.2	900	.0292	34.2	2.567	.0072	137.3
110	.0696	14.3	1.075	.0168	59.2	1000	.0272	36.8	2.756	.0068	147.0
120	.0684	14.5	1.094	.0165	60.2	1200	.0239	41.7	3.133	.0060	165.8
130	.0673	14.8	1.113	.0163	61.3						



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